

3. (Amended) An inhibitor according to Claim 2, wherein the charged ligand contains at least one  $\text{SO}_3^-$  group.

4. (Amended) An inhibitor according to Claim 2, wherein the ligand is a straight chain or branched alkyl group containing 1, 3, 4, or 6 carbon atoms and at least one  $\text{SO}_3^-$  group.

5. (Amended) An inhibitor according to Claim 2, wherein the ligand is an aryl group containing at least one  $\text{SO}_3^-$  group.

6. (Amended) The inhibitor of Claim 5, wherein the  $\text{SO}_3^-$  group is attached to a ring carbon atom.

7. (Amended) The inhibitor of Claim 6, wherein the  $\text{SO}_3^-$  group is attached to the ring carbon atom via a  $\text{C}_1$ - $\text{C}_6$ -alkylene group.

8. (Amended) A membrane-impermeable inhibitor of protein disulfide isomerase (PDI) having the formula:



wherein R is H or alkyl.

11. An inhibitor according to Claim 2, wherein one of R or R' is an uncharged H or  $\text{C}_1$ - $\text{C}_6$ -alkyl ligand.